## REMARKS/ARGUMENTS

Favorable reconsideration of this application, as presently amended and in light of the following discussion, is respectfully requested.

Claims 1-9 are currently pending, Claims 1, 3, 5, 7, and 9 having been amended. The changes and additions to the claims do not add new matter and are supported by the originally filed specification, for example, on page 10, line 15 to page 11, line 1; page 13, lines 5-12; and page 17, line 20 to page 18, line 6.

In the outstanding Office Action, Claims 1-9 were rejected under 35 U.S.C. §102(e) as being anticipated by Funato et al. (U.S. Pub. No. 2006/0025161).

With respect to the rejection of Claim 1 under 35 U.S.C. §102(e), Applicants submit that the present amendment to Claim 1 overcomes this ground of rejection. Amended Claim 1 recites, *inter alia*,

> wherein the paging area forming unit is configured to form the paging area of the mobile terminal by an algorithm of the plurality of algorithms which is associated with an application started by the mobile station and is specified by the mobile terminal.

In a non-limiting example, Applicants' specification describes a mobile station which associates and stores "application IDs" which are identifiers of applications (such as an e-mail application) which are started by the mobile terminal (see page 10, line 12-19). The mobile station also has "algorithm IDs" which are identifiers of algorithms for forming a paging area (see page 10, lines 19-21). The mobile station may select an algorithm associated with the application when the application is started (see page 10, line 27 to page 11, line 1). Thus, the claimed invention provides the advantage of associating an application started by the mobile terminal and an algorithm for forming a paging area, which enables the formation of an optimal paging area to be based on a purpose of the communication (i.e., based on the application started by the mobile terminal).

Turning to the applied art, Funato is directed to a method for automatically

reconfiguring a paging area in a telecommunications system. Funato discloses a system

which includes a mobile host 902 and last hop routers 904 and 906 (see Fig. 9). The mobile

host 902 has a host reporter agent (HRA) 908 and each of the last hop routers has a paging

area clustering agent 920. The HRA 908 is responsible for reporting movement of the mobile

host to the paging area clustering agent 920 (see para. [0064]). Fig. 20 further shows how the

HRA operates. The HRA includes a reporter process (REPF) 2002, a previous location table

(PLT) 2004 and a current location table (CLT) 2006. The REPF updates the PLT and the

CLT and registers the mobile host with a new area. The REPF also reports paging area

movement to the paging area clustering agent 920.

The Office Action appears to take the position that the HRA 908 constitutes the

claimed "paging area forming unit" of Claim 1 (see Office Action, at page 2). It also appears

that the Office Action interprets the description of a reporter process (REPF) 2002, a previous

location table (PLT) 2004 and a current location table (CLT) 2006 in Funato as

corresponding to the claimed "plurality of algorithms" of Claim 1 (see Office Action, at page

2). Thus, it appears that the examiner considers sending movement data from a mobile host

to a paging area clustering agent as constituting "an algorithm specified by the mobile

terminal," as was defined in original Claim 1.

However, Applicants submit that Funato does not disclose or suggest an algorithm

which is associated with a particular application started by the mobile host. On the contrary,

the "algorithm" interpreted by the Office Action is based on movement data of a mobile host

and is not based on an application which is started up by the mobile host.

Therefore, Applicants submit that Funato fails to disclose or suggest "wherein the

paging area forming unit is configured to form the paging area of the mobile terminal by an

algorithm of the plurality of algorithms which is associated with an application started by the

mobile station and is specified by the mobile terminal," as defined by amended Claim 1.

Therefore, Applicants respectfully submit that amended independent Claim 1 (and all

associated dependent claims) patentably distinguishes over Funato.

Amended independent Claims 3, 7, and 9 recite features similar to those of amended

Claim 1 discussed above. Therefore, Applicants respectfully submit that independent Claims

3, 7, and 9 (and all associated dependent claims) patentably distinguish over Funato.

With respect to the rejection of independent Claim 5 under 35 U.S.C. 102(e),

Applicants respectfully submit that the clarifying amendment to Claim 5 overcomes this

ground of rejection. Amended Claim 5 recites, *inter alia*,

> an algorithm specifying unit configured to specify,
> to the mobile terminal, identification information of an
> algorithm stored in the mobile terminal for the mobile
> terminal to use in forming the paging area of the mobile
> terminal.

With regard to original Claim 5, the Office Action takes the position that Funato

discloses "an algorithm specifying unit configured to specify, to the mobile terminal, an

algorithm for forming the paging area of the mobile terminal." (See Office Action, at page 5,

citing para. [0064], [0086], [0145], and Figs. 9-12 and 20 of Funato).

However, the cited portions are directed to the above-described method of Funato in

which movement data is sent from a mobile host to a paging area clustering agent. However,

Funato does not describe that the mobile host stores algorithms, and a controller apparatus

specifies to the mobile host which algorithm *for the mobile host to use in forming the*

*paging area*. On the contrary, Funato describes the mobile host sending movement

information to external devices for an external device to use in forming the paging area.

Therefore, Applicants submit that Funato fails to disclose or suggest a controller

apparatus which includes "an algorithm specifying unit configured to specify, to the mobile
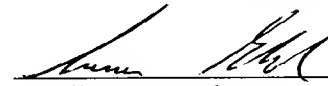
terminal, identification information of an algorithm stored in the mobile terminal for the

mobile terminal to use in forming the paging area of the mobile terminal," as defined by

amended Claim 5.

Therefore, Applicants respectfully submit that amended independent Claim 5 (and all

associated dependent claims) patentably distinguishes over Funato.

Consequently, in light of the above discussion and in view of the present amendment,

the outstanding grounds for rejection are believed to have been overcome. The present

application is believed to be in condition for formal allowance. An early and favorable action

to that effect is respectfully requested.

Respectfully submitted,

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